#### Time limit: 2.0s Memory limit: 64M

A notepad program currently has a string S in it made up of lowercase letters in the english alphabet. The user performs Q actions. Each action, they can either copy a segment of the String into the clipboard or paste what's in the clipboard to the end of the string. After all Q actions, can you figure out what S is?

The specifications for each instruction is given below:

Command Format	Description
C a b	Copy the segment from $a$ to $b$ into the clipboard
V	Paste the string in the clipboard to the end of $S$

You can also assume that the segment a to b is in S. The first action is guaranteed to be a copy action.

#### Constraints

- $1 \leq |S| \leq 1000$
- $1 \leq Q \leq 1000$
- $1 \leq a \leq b \leq |S|$
- $b-a \leq 1000$

## **Input Specification**

The first line contains the string S.

The second line contains the integer Q.

The next Q lines each describe an action.

## **Output Specification**

One string, the final value of  ${\boldsymbol{S}}$  after all of the actions

# Sample Input

abcdef	
5	
C 1 4	
V	
V	
C 8 9	
V	

#### **Sample Output**

abcdefabcdabcdbc

# Sample Explanation

We start with abcdef. Copying 1 - 4, we have abcd in the clipboard. Pasting twice, we get abcdefabcdabcd. Copy 8 - 9, we have bc in the clipboard. Pasting again gives S = abcdefabcdabcdbc